



FIG. 3A



 $n_1n_2n_3n_4n_5$  A C T G T T A G C T A A T T G G  $\nearrow$  REF. SEQ.

A-LANE TOAC GAAA AGAA CAAT AAAG C-LANE TOCC GACA ACCA CACIT AACG G-LANE TOCC GACA ACCA CACIT AACG T-LANE TOCC GACA ACCA CACIT AACG I<sub>1</sub> I<sub>2</sub> I<sub>3</sub> I<sub>4</sub> I<sub>5</sub>

WT. LANE TGAC GACA ACAA CAAT AATIG

FIG. 4A

ACTGTTAGCTAATTGG CENTRAL INTERROGATION POSITION

AATCGAT

5' I 3' INTERROGATION POSITION

THACC

5' I 3' INTERROGATION POSITION

THACC

5' I NTERROGATION POSITION POSITION

FIG. 4B

GGGXCCCTTAF

AGGGAAT QGGGAAT QGGGAAT TGGGAAT

FIG. 4C